

Title: NNEWG2

RESULT 7

AAW48713

ID AAW48713 standard; Protein; 2233 AA.

XX

AC AAW48713;

XX

DT 13-OCT-1998 (first entry)

XX

DE HPIV-3 Vero cp45 vaccine L protein.

XX

KW L protein; attenuation; non-segmented; negative sense; vaccine; immunity;
KW single stranded RNA virus; Mononegavirales.

XX

OS Human parainfluenza virus.

XX

PN WO9813501-A2.

XX

PD 02-APR-1998.

XX

PF 19-SEP-1997; 97WO-US16718.

XX

PR 27-SEP-1996; 96US-0026823.

XX

PA (AMCY) AMERICAN CYANAMID CO.

PA (USSH) US DEPT HEALTH & HUMAN SERVICES.

XX

PI Murphy BR, Randolph VB, Sidhu MS, Tatem JM, Udem SA;

XX

DR WPI; 1998-230710/20.

DR N-PSDB; AAV18274.

XX

PT Recombinantly-generated, attenuated, non-segmented, negative-sense,
PT single stranded RNA virus of order Mononegavirales - having
PT attenuating mutation in 3' genomic promoter region and RNA
PT polymerase gene, useful as vaccine to immunise against such virus

XX

PS Disclosure; Page 283-291; 426pp; English.

XX

CC This sequence represents the Human parainfluenza virus (HPIV-3) type 3
CC vaccine Vero cp45 L protein. This sequence is used in a method which
CC involves the isolation of recombinantly-generated, attenuated,
CC non-segmented, negative-sense, single stranded RNA virus of the order
CC Mononegavirales which have at least 1 attenuating mutation in the 3'
CC genomic promoter region and at least 1 attenuating mutation in the RNA
CC polymerase gene. This RNA virus can be used as a vaccine to immunise an
CC individual against such a virus.

XX

SQ Sequence 2233 AA;

Query Match 100.0%; Score 35; DB 19; Length 2233;

Best Local Similarity 100.0%; Pred. No. 1.3e+03;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 NNEWG 5

|||||

Db 1726 NNEWG 1730

Title: NNIWG4

RESULT 4

GUNS_ERWCA

ID GUNS_ERWCA STANDARD; PRT; 264 AA.
AC P16630;
DT 01-AUG-1990 (Rel. 15, Created)
DT 01-AUG-1990 (Rel. 15, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Endoglucanase S precursor (EC 3.2.1.4) (Endo-1,4-beta-glucanase S)
DE (Cellulase S).
GN CELS.
OS Erwinia carotovora.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
OC Enterobacteriaceae; Pectobacterium.
OX NCBI_TaxID=554;
RN [1]
RP SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.
RC STRAIN=SCC3193;
RX MEDLINE=90337352; PubMed=2379837;
RA Saarilahti H.T., Henrissat B., Palva E.T.;
RT "Cels: a novel endoglucanase identified from Erwinia carotovora
RT subsp. carotovora.";
RL Gene 90:9-14(1990).
CC -!- CATALYTIC ACTIVITY: Endohydrolysis of 1,4-beta-D-glucosidic
CC linkages in cellulose, lichenin and cereal beta-D-glucans.
CC -!- SIMILARITY: BELONGS TO CELLULASE FAMILY H (FAMILY 12 OF GLYCOSYL
CC HYDROLASES).
CC -----
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See <http://www.isb-sib.ch/announce/>
CC or send an email to license@isb-sib.ch).
CC -----
DR EMBL; M32399; AAA24817.1; -.
DR PIR; JU0328; JU0328.
DR InterPro; IPR002594; Glyco_hydro_12.
DR Pfam; PF01670; Glyco_hydro_12; 1.
DR ProDom; PD004316; Glyco_hydro_12; 1.
KW Cellulose degradation; Hydrolase; Glycosidase; Signal.
FT SIGNAL 1 32
FT CHAIN 33 264 ENDOGLUCANASE S.
SQ SEQUENCE 264 AA; 29757 MW; E6D61388950C77AA CRC64;

Query Match 97.0%; Score 32; DB 1; Length 264;
Best Local Similarity 80.0%; Pred. No. 28;
Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 NNIWG 5
11:11
Db 53 NNVWG 57

Title: NNLWG1

RESULT 1

US-08-774-065-6

; Sequence 6, Application US/08774065

; Patent No. 5989899

; GENERAL INFORMATION:

; APPLICANT: Bower, Benjamin

; APPLICANT: Clarkson, Kathleen

; APPLICANT: Larenas, Edmund

; APPLICANT: Ward, Michael

; TITLE OF INVENTION: NOVEL OVERSIZED CELLULASE COMPOSITIONS

; TITLE OF INVENTION: FOR USE IN DETERGENT COMPOSITIONS AND

; TITLE OF INVENTION: IN THE TREATMENT OF TEXTILES

; NUMBER OF SEQUENCES: 16

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: GENENCOR INTERNATIONAL

; STREET: 925 PAGE MILL ROAD

; CITY: PALO ALTO

; STATE: CALIFORNIA

; COUNTRY: UNITED STATES

; ZIP: 94304

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: DOS

; SOFTWARE: FastSEQ for Windows Version 2.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/774,065

; FILING DATE:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Glaister, Debra J.

; REGISTRATION NUMBER: 33,888

; REFERENCE/DOCKET NUMBER: GC368

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 415-846-7620

; TELEFAX: 415-845-6504

; INFORMATION FOR SEQ ID NO: 6:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 77 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

US-08-774-065-6

Query Match 100.0%; Score 33; DB 2; Length 77;

Best Local Similarity 100.0%; Pred. No. 24;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 NNLWG 5
|||||
Db 68 NNLWG 72

RESULT 2

US-08-774-065-2

; Sequence 2, Application US/08774065

; Patent No. 5989899

; GENERAL INFORMATION:

; APPLICANT: Bower, Benjamin

; APPLICANT: Clarkson, Kathleen

; APPLICANT: Larenas, Edmund

; APPLICANT: Ward, Michael

; TITLE OF INVENTION: NOVEL OVERSIZED CELLULASE COMPOSITIONS

; TITLE OF INVENTION: FOR USE IN DETERGENT COMPOSITIONS AND

; TITLE OF INVENTION: IN THE TREATMENT OF TEXTILES

; NUMBER OF SEQUENCES: 16

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: GENENCOR INTERNATIONAL
; STREET: 925 PAGE MILL ROAD
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: UNITED STATES
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/774,065
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Glaister, Debra J.
; REGISTRATION NUMBER: 33,888
; REFERENCE/DOCKET NUMBER: GC368
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-846-7620
; TELEFAX: 415-845-6504
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 136 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-774-065-2

Query Match 100.0%; Score 33; DB 2; Length 136;
Best Local Similarity 100.0%; Pred. No. 42;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1>NNLWG 5
|
Db 35>NNLWG 39

RESULT 3
US-09-216-295-11
; Sequence 11, Application US/09216295
; Patent No. 6268328
; GENERAL INFORMATION:
; APPLICANT: Mitchinson, Colin
; APPLICANT: Wendt, Dan J.
; TITLE OF INVENTION: No. 6268328e1 Variant EGIII-Like Cellulase Compositions
; FILE REFERENCE: GC555
; CURRENT APPLICATION NUMBER: US/09/216,295
; CURRENT FILING DATE: 1998-12-18
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 11
; LENGTH: 194
; TYPE: PRT
; ORGANISM: Chaetomium brasiliense
US-09-216-295-11

Query Match 100.0%; Score 33; DB 3; Length 194;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1>NNLWG 5
|
Db 45>NNLWG 49

RESULT 4
US-08-032-848C-10

; Sequence 10, Application US/08032848C
; Patent No. 5475101
; GENERAL INFORMATION:
; APPLICANT: Ward, Michael
; APPLICANT: Clarkson, Kathleen A.
; APPLICANT: Weiss, Geoffrey L.
; APPLICANT: Larenas, Edward
; APPLICANT: Lorch, Jeffrey D.
; TITLE OF INVENTION: Purification and Molecular Cloning of
; TITLE OF INVENTION: EG III Cellulase
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genencor International
; STREET: 180 Kimball Way
; CITY: South San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/032,848C
; FILING DATE: MAR 17 1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Horn, Margaret A.
; REGISTRATION NUMBER: 33,401
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415 742-7356
; TELEFAX: 415 742-7217
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 218 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-032-848C-10

Query Match 100.0%; Score 33; DB 1; Length 218;
Best Local Similarity 100.0%; Pred. No. 67;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1>NNLWG 5
|||||
Db 19>NNLWG 23

RESULT 5

US-08-438-870-10

; Sequence 10, Application US/08438870
; Patent No. 5753484
; GENERAL INFORMATION:
; APPLICANT: Ward, Michael
; APPLICANT: Clarkson, Kathleen A.
; APPLICANT: Weiss, Geoffrey L.
; APPLICANT: Larenas, Edward
; APPLICANT: Lorch, Jeffrey D.
; TITLE OF INVENTION: Purification and Molecular Cloning of EG
; TITLE OF INVENTION: III Cellulase
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genencor International
; STREET: 180 Kimball Way
; CITY: South San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94080

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/438,870
; FILING DATE: May 10, 1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Christopher L. Stone
; REGISTRATION NUMBER: 35,696
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415 742-7555
; TELEFAX: 415 742-7217
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 218 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-438-870-10

Query Match 100.0%; Score 33; DB 1; Length 218;
Best Local Similarity 100.0%; Pred. No. 67;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1>NNLWG 5
|
Db 19>NNLWG 23

RESULT 6

US-08-169-948B-34

; Sequence 34, Application US/08169948B
; Patent No. 5861271
; GENERAL INFORMATION:
; APPLICANT: Fowler, Timothy
; APPLICANT: Ward, Michael
; APPLICANT: Clarkson, Kathleen
; APPLICANT: Collier, Katherine
; APPLICANT: Larenas, Edmund
; TITLE OF INVENTION: No. 5861271el Cellulase Enzymes and Systems
; TITLE OF INVENTION: For Their Expression
; NUMBER OF SEQUENCES: 48
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genencor International
; STREET: 180 Kimball Way
; CITY: South San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94080

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/169,948B
; FILING DATE: DEC 17 1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Horn, Margaret A.
; REGISTRATION NUMBER: 33,401
; REFERENCE/DOCKET NUMBER: GC226
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 742-7536
; TELEFAX: (415) 742-7217
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:

; LENGTH: 218 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-169-948B-34

Query Match 100.0%; Score 33; DB 2; Length 218;
Best Local Similarity 100.0%; Pred. No. 67;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1>NNLWG 5
|||||
Db 19>NNLWG 23

RESULT 7

US-08-448-873-34

; Sequence 34, Application US/08448873
; Patent No. 5874276

; GENERAL INFORMATION:

; APPLICANT: Fowler, Timothy
; APPLICANT: Ward, Michael
; APPLICANT: Clarkson, Kathleen
; APPLICANT: Collier, Katherine A.
; APPLICANT: Larenas, Edmund
; TITLE OF INVENTION: No. 5874276el Cellulase Enzymes and Systems
; TITLE OF INVENTION: For Their Expressions
; NUMBER OF SEQUENCES: 48
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genencor International
; STREET: 180 Kimball Way
; CITY: South San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94080

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/448,873
; FILING DATE:
; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/169,948
; FILING DATE: 17-DEC-1993

; ATTORNEY/AGENT INFORMATION:

; NAME: Stone, Christopher L.
; REGISTRATION NUMBER: 35,696
; REFERENCE/DOCKET NUMBER: GC226D14

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (415) 742-7555
; TELEFAX: (415) 742-7217

; INFORMATION FOR SEQ ID NO: 34:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 218 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein

US-08-448-873-34

Query Match 100.0%; Score 33; DB 2; Length 218;
Best Local Similarity 100.0%; Pred. No. 67;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1>NNLWG 5
|||||
Db 19>NNLWG 23

RESULT 8

US-08-382-452D-34

; Sequence 34, Application US/08382452D

; Patent No. 6268196

; GENERAL INFORMATION:

; APPLICANT: Fowler, Timothy

; APPLICANT: Clarkson, Kathleen A.

; APPLICANT: Ward, Michael

; APPLICANT: Collier, Katherine D.

; APPLICANT: Larenas, Edmund A.

; TITLE OF INVENTION: NOVEL CELLULOSE ENZYMES AND SYSTEMS

; TITLE OF INVENTION: FOR THEIR EXPRESSION

; NUMBER OF SEQUENCES: 43

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Genencor International

; STREET: 925 Page Mill Road

; CITY: Palo Alto

; STATE: CA

; COUNTRY: USA

; ZIP: 94080

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/382,452D

; FILING DATE: February 1, 1995

; ATTORNEY/AGENT INFORMATION:

; NAME: Christopher L. Stone

; REGISTRATION NUMBER: 36,696

; REFERENCE/DOCKET NUMBER: GC226-2

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (415) 742-7555

; TELEFAX: (415) 742-7217

; INFORMATION FOR SEQ ID NO: 34:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 218 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-382-452D-34

Query Match 100.0%; Score 33; DB 3; Length 218;

Best Local Similarity 100.0%; Pred. No. 67;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1>NNLWG 5

|||||

Db 19>NNLWG 23

RESULT 9

US-09-216-295-1

; Sequence 1, Application US/09216295

; Patent No. 6268328

; GENERAL INFORMATION:

; APPLICANT: Mitchinson, Colin

; APPLICANT: Wendt, Dan J.

; TITLE OF INVENTION: No. 6268328e1 Variant EGI-III-Like Cellulase Compositions

; FILE REFERENCE: GC555

; CURRENT APPLICATION NUMBER: US/09/216,295

; CURRENT FILING DATE: 1998-12-18

; NUMBER OF SEQ ID NOS: 41

; SOFTWARE: FastSEQ for Windows Version 3.0

; SEQ ID NO 1

; LENGTH: 218

; TYPE: PRT

; ORGANISM: Trichoderma longibrachiatum

US-09-216-295-1

Query Match 100.0%; Score 33; DB 3; Length 218;
Best Local Similarity 100.0%; Pred. No. 67;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 NNLWG 5
|||||
Db 19 NNLWG 23

RESULT 10

US-08-507-362A-18

; Sequence 18, Application US/08507362A
; Patent No. 6562340

; GENERAL INFORMATION:

; APPLICANT: Bedford, Michael
; Morgan, Andrew
; Fowler, Timothy
; Ward, Michael
; Clarkson, Kathleen
; Collier, Katherine
; Larenas, Edmund

; TITLE OF INVENTION: An Enzyme Feed Additive and Animal Feed Including It
; NUMBER OF SEQUENCES: 21

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Genencor International
; STREET: 925 Page Mill Road
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/507,362A
; FILING DATE: 27-Oct-1995
; CLASSIFICATION: <Unknown>

; ATTORNEY/AGENT INFORMATION:

; NAME: Castaneda, Janet
; REGISTRATION NUMBER: 33,228
; REFERENCE/DOCKET NUMBER: GC226-3

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (650) 846-4072
; TELEFAX: (650) 845-6504

; INFORMATION FOR SEQ ID NO: 18:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 218 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear

; MOLECULE TYPE: protein

; SEQUENCE DESCRIPTION: SEQ ID NO: 18:

US-08-507-362A-18

Query Match 100.0%; Score 33; DB 4; Length 218;
Best Local Similarity 100.0%; Pred. No. 67;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

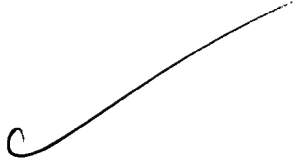
Qy 1 NNLWG 5
|||||
Db 19 NNLWG 23

RESULT 11

US-08-032-848C-13

; Sequence 13, Application US/08032848C
; Patent No. 5475101

; GENERAL INFORMATION:
; APPLICANT: Ward, Michael
; APPLICANT: Clarkson, Kathleen A.
; APPLICANT: Weiss, Geoffrey L.
; APPLICANT: Larenas, Edward
; APPLICANT: Lorch, Jeffrey D.
; TITLE OF INVENTION: Purification and Molecular Cloning of
; TITLE OF INVENTION: EG III Cellulase
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genencor International
; STREET: 180 Kimball Way
; CITY: South San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/032,848C
; FILING DATE: MAR 17 1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Horn, Margaret A.
; REGISTRATION NUMBER: 33,401
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415 742-7356
; TELEFAX: 415 742-7217
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 221 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-032-848C-13




Query Match 100.0%; Score 33; DB 1; Length 221;
Best Local Similarity 100.0%; Pred. No. 68;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 NNLWG 5
|
Db 21 NNLWG 25

RESULT 12

US-09-146-770-1

; Sequence 1, Application US/09146770
; Patent No. 6187732
; GENERAL INFORMATION:
; APPLICANT: Fowler, Timothy
; TITLE OF INVENTION: Mutant EGIII Cellulase, DNA Encoding
; TITLE OF INVENTION: Such EGIII Compositions and Methods for Obtaining Same
; FILE REFERENCE: GC546
; CURRENT APPLICATION NUMBER: US/09/146,770
; CURRENT FILING DATE: 1998-09-03
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 232
; TYPE: PRT
; ORGANISM: T. reesei
US-09-146-770-1



Query Match 100.0%; Score 33; DB 3; Length 232;
Best Local Similarity 100.0%; Pred. No. 71;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 NNLWG 5
|||||
Db 35 NNLWG 39

RESULT 13

US-09-633-084-1

; Sequence 1, Application US/09633084
; Patent No. 6407046
; GENERAL INFORMATION:
; APPLICANT: Fowler, Timothy
; TITLE OF INVENTION: Mutant EGI III Cellulase, DNA Encoding
; TITLE OF INVENTION: Such EGI III Compositions and Methods for Obtaining Same
; FILE REFERENCE: GC546
; CURRENT APPLICATION NUMBER: US/09/633,084
; CURRENT FILING DATE: 2000-08-04
; PRIOR APPLICATION NUMBER: 09/146,770
; PRIOR FILING DATE: 1998-09-03
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 232
; TYPE: PRT
; ORGANISM: T. reesei
US-09-633-084-1

Query Match 100.0%; Score 33; DB 4; Length 232;
Best Local Similarity 100.0%; Pred. No. 71;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 NNLWG 5
|||||
Db 35 NNLWG 39

RESULT 3

S12610
cellulase (EC 3.2.1.4) precursor - Aspergillus aculeatus
N;Alternate names: endo-1,4-beta-glucanase
C;Species: Aspergillus aculeatus
C;Date: 07-Apr-1994 #sequence_revision 07-Apr-1994 #text_change 21-Jul-2000
C;Accession: S12610; S14118; S40186; JQ0458
R;Ooi, T.; Shinmyo, A.; Okada, H.; Murao, S.; Kawaguchi, T.; Arai, M.
Nucleic Acids Res. 18, 5884, 1990
A;Title: Complete nucleotide sequence of a gene coding for Aspergillus aculeatus cellulase (FI-CMCase).
A;Reference number: S12610; MUID:91016934; PMID:2216782
A;Accession: S12610
A;Molecule type: DNA
A;Residues: 1-237 <OOI1>
A;Cross-references: EMBL:D00546; NID:g217818; PIDN:BAA00435.1; PID:g217819
R;Ooi, T.; Shinmyo, A.; Okada, H.; Hara, S.; Ikenaka, T.; Murao, S.; Arai, M.
Curr. Genet. 18, 217-222, 1990
A;Title: Cloning and sequence analysis of a cDNA for cellulase (FI-CMCase) from Aspergillus aculeatus.
A;Reference number: S14118; MUID:91064758; PMID:2249253
A;Accession: S14118
A;Molecule type: mRNA
A;Residues: 1-237 <OOI2>
A;Cross-references: EMBL:X52525; NID:g2287; PIDN:CAA36757.1; PID:g2288
A;Accession: S40186
A;Molecule type: protein
A;Residues: 17-18;42-49,'X',51-54,'X';66-79;90-111;136-205,'XX',208-211 <OOI3>
C;Genetics:
A;Introns: 138/2; 212/1
C;Function:
A;Description: hydrolysis of 1,4-beta-D-glucosidic linkages in beta-D-glucans such as cellulose and lichenin; can hydrolyze such linkages in beta-D-glucans that also contain 1,3-linkages
A;Pathway: cellulose degradation
C;Keywords: glycosidase; hydrolase; polysaccharide degradation; pyroglutamic acid
F;1-16/Domain: signal sequence #status predicted <SIG>
F;17-237/Product: cellulase #status experimental <MAT>

F;17/Modified site: pyrrolidone carboxylic acid (Gln) (in mature form) #status experimental

Query Match 100.0%; Score 33; DB 2; Length 237;
Best Local Similarity 100.0%; Pred. No. 46;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1>NNLWG 5
|||||
Db 37>NNLWG 41

RESULT 1

GUN ASPAC

ID GUN ASPAC STANDARD; PRT; 237 AA.
AC P22669;
DT 01-AUG-1991 (Rel. 19, Created)
DT 01-AUG-1991 (Rel. 19, Last sequence update)
DT 15-SEP-2003 (Rel. 42, Last annotation update)
DE Endoglucanase I precursor (EC 3.2.1.4) (Endo-1,4-beta-glucanase)
DE (Cellulase) (FI-CMCASE).
OS Aspergillus aculeatus.
OC Eukaryota; Fungi; Ascomycota; Pezizomycotina; Eurotiomycetes;
OC Eurotiales; Trichocomaceae; mitosporic Trichocomaceae; Aspergillus.
OX NCBI_TaxID=5053;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=F-50;
RX MEDLINE=91016934; PubMed=2216782;
RA Ooi T., Shinmyo A., Okada H., Murao S., Kawaguchi T., Arai M.;
RT "Complete nucleotide sequence of a gene coding for Aspergillus
RT aculeatus cellulase (FI-CMCASE).";
RL Nucleic Acids Res. 18:5884-5884(1990).
RN [2]
RP SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.
RC STRAIN=F-50;
RX MEDLINE=91064758; PubMed=2249253;
RA Ooi T., Shinmyo A., Okada H., Hara S., Ikenaka T., Murao S.,
RA Arai M.;
RT "Cloning and sequence analysis of a cDNA for cellulase (FI-CMCASE)
RT from Aspergillus aculeatus.";
RL Curr. Genet. 18:217-222(1990).
CC -!- CATALYTIC ACTIVITY: Endohydrolysis of 1,4-beta-D-glucosidic
CC linkages in cellulose, lichenin and cereal beta-D-glucans.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- INDUCTION: By cellulosic materials and hemicelluloses.
CC -!- MISCELLANEOUS: Will also hydrolyze 1,4-linkages in beta-D-glucans
CC also containing 1,3-linkages.
CC -!- SIMILARITY: BELONGS TO CELLULASE FAMILY H (FAMILY 12 OF GLYCOSYL
CC HYDROLASES).
CC -----
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
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CC or send an email to license@isb-sib.ch).
CC -----
DR EMBL; D00546; BAA00435.1; -.
DR EMBL; X52525; CAA36757.1; -.
DR PIR; S12610; S12610.
DR InterPro; IPR002594; Glyco_hydro_12.
DR Pfam; PF01670; Glyco_hydro_12; 1.
DR ProDom; PD004316; Glyco_hydro_12; 1.
KW Cellulose degradation; Hydrolase; Glycosidase; Signal;
KW Pyrrolidone carboxylic acid.
FT SIGNAL 1 16 POTENTIAL.
FT CHAIN 17 237 ENDOGLUCANASE I.
FT MOD_RES 17 17 PYRROLIDONE CARBOXYLIC ACID.
SQ SEQUENCE 237 AA; 25560 MW; 8F173571A8AE6931 CRC64;

Query Match 100.0%; Score 33; DB 1; Length 237;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1>NNLWG 5
|||||
Db 37>NNLWG 41

RESULT 6

000095

ID 000095 PRELIMINARY; PRT; 234 AA.
AC 000095;
DT 01-JUL-1997 (TrEMBLrel. 04, Created)
DT 01-JUL-1997 (TrEMBLrel. 04, Last sequence update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE Endo-beta-1,4-glucanase (EC 3.2.1.4).
GN EGL.
OS Trichoderma reesei (Hypocrea jecorina).
OC Eukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes;
OC Hypocreales; Hypocreaceae; Hypocrea.
OX NCBI_TaxID=51453;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=QM9414;
RA Okada H., Tada K., Sekiya T., Yokoyama K., Takahashi A., Tohda H.,
RA Kumagai H., Morikawa Y.;
RT "Molecular characterization and heterologous expression of the gene
RT encoding a low-molecular-mass endoglucanase from Trichoderma reesei
RT QM9414.";
RL Appl. Environ. Microbiol. 64:55-563(1998).
DR EMBL; AB003694; BAA20140.1; -.
DR InterPro; IPR002594; Glyco_hydro_12.
DR Pfam; PF01670; Glyco_hydro_12; 1.
DR ProDom; PD004316; Glyco_hydro_12; 1.
KW Glycosidase; Hydrolase.
SQ SEQUENCE 234 AA; 25159 MW; DF476EEDE384ADD1 CRC64;

Query Match 100.0%; Score 33; DB 3; Length 234;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1>NNLWG 5
|||||
Db 35>NNLWG 39

RESULT 7

Q8NJY5

ID Q8NJY5 PRELIMINARY; PRT; 234 AA.
AC Q8NJY5;
DT 01-OCT-2002 (TrEMBLrel. 22, Created)
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE Endoglucanase.
GN CEL12A.
OS Hypocrea koningii.
OC Eukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes;
OC Hypocreales; Hypocreaceae; Hypocrea.
OX NCBI_TaxID=97093;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22067395; PubMed=12073090;
RA Goedegebuur F., Fowler T., Phillips J., van der Kley P.,
RA van Solingen P., Dankmeyer L., Power S.D.;
RT "Cloning and relational analysis of 15 novel fungal endoglucanases
RT from family 12 glycosyl hydrolase.";
RL Curr. Genet. 41:89-98(2002).
DR EMBL; AF435069; AAM77712.1; -.
DR InterPro; IPR002594; Glyco_hydro_12.
DR Pfam; PF01670; Glyco_hydro_12; 1.

DR ProDom; PD004316; Glyco_hydro_12; 1.
SQ SEQUENCE 234 AA; 25299 MW; 4AED8486C29FFC44 CRC64;

Query Match 100.0%; Score 33; DB 3; Length 234;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1>NNLWG 5
|||||
Db 35>NNLWG 39

RESULT 8

Q8NJY2

ID Q8NJY2 PRELIMINARY; PRT; 237 AA.
AC Q8NJY2;
DT 01-OCT-2002 (TrEMBLrel. 22, Created)
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE Endoglucanase.
GN CEL12B.
OS Aspergillus awamori (var. kawachi).
OC Eukaryota; Fungi; Ascomycota; Pezizomycotina; Eurotiomycetes;
OC Eurotiales; Trichocomaceae; mitosporic Trichocomaceae; Aspergillus.
OX NCBI_TaxID=40384;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22067395; PubMed=12073090;
RA Goedegebuur F., Fowler T., Phillips J., van der Kley P.,
RA van Solingen P., Dankmeyer L., Power S.D.;
RT "Cloning and relational analysis of 15 novel fungal endoglucanases
RT from family 12 glycosyl hydrolase."
RL Curr. Genet. 41:89-98(2002).
DR EMBL; AF435072; AAM77715.1; -.
DR InterPro; IPR002594; Glyco_hydro_12.
DR Pfam; PF01670; Glyco_hydro_12; 1.
DR ProDom; PD004316; Glyco_hydro_12; 1.
SQ SEQUENCE 237 AA; 25710 MW; 4DBDC8563E7CD021 CRC64;

Query Match 100.0%; Score 33; DB 3; Length 237;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1>NNLWG 5
|||||
Db 37>NNLWG 41

RESULT 9

O13454

ID O13454 PRELIMINARY; PRT; 239 AA.
AC O13454;
DT 01-JAN-1998 (TrEMBLrel. 05, Created)
DT 01-JAN-1998 (TrEMBLrel. 05, Last sequence update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE Endo-1,4-beta-glucanase (EC 3.2.1.4).
GN CELA.
OS Aspergillus oryzae.
OC Eukaryota; Fungi; Ascomycota; Pezizomycotina; Eurotiomycetes;
OC Eurotiales; Trichocomaceae; mitosporic Trichocomaceae; Aspergillus.
OX NCBI_TaxID=5062;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=KBN616;
RX MEDLINE=97161783; PubMed=9008887;
RA Kitamoto N., Go M., Shibayama T., Kimura T., Kito Y., Ohmiya K.,
RA Tsukagoshi N.;
RT "Molecular cloning, purification and characterization of two endo-1,4-
RT beta-glucanases from Aspergillus oryzae KBN616."
RL Appl. Microbiol. Biotechnol. 46:538-544(1996).
DR EMBL; D83731; BAA22588.1; -.

DR InterPro; IPR002594; Glyco_hydro_12.
DR Pfam; PF01670; Glyco_hydro_12; 1.
DR ProDom; PD004316; Glyco_hydro_12; 1.
KW Glycosidase; Hydrolase.
SQ SEQUENCE 239 AA; 26096 MW; C0F850E5DFEB455D CRC64;

Query Match 100.0%; Score 33; DB 3; Length 239;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1>NNLWG 5
|||||
Db 35>NNLWG 39